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Application No. 10/069,954  
Response dated June 3, 2004  
Reply to Office Action of March 16, 2004

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

Claims 1-8 (canceled)

Claim 9 (currently amended): A method of detecting and removing a shell residue left in a shellfish flesh portion, comprising:

irradiating a light having a peak wavelength from 254nm to 400nm directly onto a shellfish flesh portion after finishing a shell-stripping work, wherein the light makes thereby emitting a fluorescent light emit more from the shell residue than from the shellfish flesh portion;

detecting the fluorescent light emitted from the shell residue; and

*the shellfish with*  
*removing the shell residue from further processing.*

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Claim 10 (currently amended): A method of detecting and removing a shell residue left in a shellfish flesh portion according to claim 9, wherein the fluorescent light emitted from the shellfish flesh portion is detected by ~~taking an image of the shellfish flesh portion with a CCD camera.~~

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3  
Claim 11 (currently amended): A method of detecting and removing a shell residue left in a shellfish flesh portion according to claim 9, wherein the shellfish flesh portion comes from shrimp, and wherein the irradiated light has a peak wavelength of not more than 254nm [[400nm]].

4  
Claim 12 (currently amended): A method of detecting and removing a shell residue left in a shellfish flesh portion according to claim 9, wherein the shellfish flesh portion comes from crab, and wherein the irradiated light has a peak wavelength of not more than 400nm.

5  
Claim 13 (currently amended) A method of detecting and removing a shell residue left in a shellfish flesh portion according to claim 9, wherein the irradiated light is an excitation light.

6  
Claim 14 (previously presented) A method of detecting and removing a shell residue left in a shellfish flesh portion according to claim 9, wherein the fluorescent light is detected through a filter, and wherein the filter absorbs the irradiated light and passes the emitted fluorescent light.

7  
Claim 15 (currently amended): An apparatus for detecting and removing a shell residue left in a shellfish flesh portion, comprising:

a light source provided for irradiating a light having a peak wavelength from 254nm to 400nm directly onto a shellfish flesh portion after finishing a shell-stripping work, wherein the irradiated light makes thereby emitting a fluorescent light emit more from the shell residue than from the shellfish flesh portion;

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a detecting means provided for detecting the fluorescent light emitted from the shell residue; and

*detected shellfish with the*  
*a means provided for removing the shell residue detected from further processing.*

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Claim 16 (currently amended): An apparatus for detecting and removing a shell residue left in a shellfish flesh portion according to claim 15, further comprising a CCD camera provided for detecting for taking an image of the shellfish flesh portion to detect the fluorescent light.

Claim 17 (currently amended): An apparatus for detecting and removing a shell residue left in a shellfish flesh portion according to claim 15, further comprising a filter provided between the shellfish flesh portion and the detecting means, wherein the fluorescent light is detected through a filter, and wherein the filter absorbs the irradiated light and passes the emitted fluorescent light.